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... architecture include a single static prediction bit which encodes the

software-predicted branch direction. This paper does not present ...

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T Yeh

Y Patt

M Smith

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B Calder

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... the pattern history information in the pattern history table changes dynamically

in Two-Level Adaptive Branch Prediction but is preset in Static Training from ...

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... the fundamental differences between static and dynamic ... I Introduction Recent work

in branch prediction has led to ... of both hardware and software schemes that ...

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B Calder, D Grunwald, M Jones, D Lindsay, J Martin, M Mozer ... - ACM Transactions on Programming Languages and Systems (..., 1997 - portal.acm.org

... have invented, called Evidence-Based Static Prediction (ESP ... have been taken toward branch prediction, some of ... Patt 1993) while others involve software (Ball and ...

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B Calder, D Grunwald, D Lindsay, J Martin, M Mozer ... - Proceedings of the ACM SIGPLAN 1995 conference on ..., 1995 - portal.acm.org

... Software methods usually work in tandem with hardware methods, For ... In this section,

we discuss the existing approaches to static branch prediction and also ...

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SA Mahlke, RE Hank, RA Bittmann, JC Gyllenhaal, ... - Microarchitecture, 1994. MICRO-27. Proceedings of the 27th ... - ieeexplore.ieee.org

... or superblock scheduling [6], static branch prediction is used ... hardware scheduling,

dynamic branch prediction is used ... Regardless of the prediction strategy em ...

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DW Wall - 1991 - ACM Press New York, NY, USA

... We assume that hardware and software tech- ... To model trace scheduling, we can also

assume static branch prediction based on a profile from an identical run; In ...

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Fast and accurate instruction fetch and branch prediction - all 12 versions »

B Calder, D Grunwald - ACM SIGARCH Computer Architecture News, 1994 - portal.acm.org

... that use heuristics based on the direction of the branch target (forward or backward)

or instruction opcode. While static prediction mechanisms, particularly ...

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Guarded execution and branch prediction in dynamic ILP processors - all 3 versions »

DN Pnevmatikatos, GS Sohn - Computer Architecture, 1994. Proceedings. the 21st Annual ..., 1994 - ieeexplore.ieee.org

... execution to facilitate the software pipelining of ... using trace selection based on

branch frequencies, such ... are not amenable to static prediction are eliminated ...

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